

Listing of the Claims

1. (Currently Amended) A method of controlling wireless data transmission from a mobile terminal unit ~~(1)~~ to a receiving system ~~(3-6)~~, wherein:
 - a) the terminal unit ~~(1)~~ transmits data via a short-range radio technology ~~(2)~~ in a first mode and switches to a second mode if the quality of the communication link via the short-range radio technology falls below a first predetermined threshold;
 - b) the terminal unit ~~(1)~~ transmits data via a long-range radio technology ~~(7)~~ and switches to the first mode as soon as the quality of the communication link via the short-range radio technology is above a second predetermined threshold;
 - c) on switching from one mode to the other, the communication link ~~(2, 7)~~ via the radio technology of the previous mode is maintained until the link ~~(7, 2)~~ is established via the radio technology of the subsequent mode.
2. (Currently Amended) A method according to claim 1, ~~characterized in that~~ wherein the quality of the communication link via the short-range radio technology ~~(2)~~ is determined by the signal strength, the error rate and/or the signal to noise distance of the communication link.
3. (Currently Amended) A method according to claim 1 ~~or claim 2, characterized in that~~ wherein the short-range radio technology ~~(2)~~ is based on the Bluetooth protocol.
4. (Currently Amended) A method according to ~~at least one of claims 1 to 3, characterized in that~~ wherein the long-range radio technology ~~(7)~~ is based on a WLAN standard.
5. (Currently Amended) A method according to ~~at least one of claims 1 to 4, characterized in that~~ wherein the terminal unit ~~(1)~~ has sensors for measuring physiological parameters of a patient.
6. (Currently Amended) A method according to ~~at least one of claims 1 to 5, characterized in that~~ wherein the communication via the various radio technologies is carried out using stations ~~(3, 5)~~ of the receiving system that are spatially separated.

7. (Currently Amended) A method according to ~~at least one of claims 1 to 6,~~
~~characterized in that~~wherein when switching between two radio technologies, the
transmitted data streams are synchronized.

8. (Currently Amended) A patient monitoring system for mobile acquisition of a
patient's physiological parameters, comprising a mobile terminal unit ~~(1)~~ and a receiving
system ~~(3-6)~~, which is arranged to carry out a method according to ~~at least one of claims 1~~
~~to 7.~~

9. (Currently Amended) A patient monitoring system according to claim 8,
~~characterized in that~~wherein the receiving system comprises a first station ~~(3)~~ with which
the terminal unit ~~(1)~~ can communicate via a short-range radio technology, and a second
station ~~(5)~~ with which the terminal unit ~~(1)~~ can communicate via the long-range radio
technology.

10. (Currently Amended) A patient monitoring system according to claim 9,
~~characterized in that~~wherein the first and second stations ~~(3, 5)~~ are networked.